

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044752 A1

(51) International Patent Classification⁷:
// C08F 220/26

C04B 24/26

(74) Agents: YASUTOMI, Yasuo et al.; Chuo BLDG. 4-20,
Nishinakajima 5-chome, Yodogawa-ku, Osaka-shi, Osaka
5320011 (JP).

(21) International Application Number:

PCT/IP2004/016704

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

4 November 2004 (04.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-376183	5 November 2003 (05.11.2003)	JP
2004-167295	4 June 2004 (04.06.2004)	JP
2004-186452	24 June 2004 (24.06.2004)	JP

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): NIPPON
SHOKUBAI CO., LTD. [JP/JP]; 1-1, Koraibashi 4-chome,
Chuo-ku, Osaka-shi, Osaka 5410043 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): UETA, Tomiyasu
[JP/JP]; 4-52, Nakanoshimacho, Suita-shi, Osaka 5640035
(JP). YAMAZAKI, Hiroshi [JP/JP]; 3-12, Koryon-
akamachi 4-chome, Sakai-shi, Osaka 5900024 (JP).
TANAKA, Hiromichi [JP/JP]; D-302, 32-50, Shishigaya
1-chome, Tsurumi-ku, Yokohama-shi, Kanagawa 2300073
(JP).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CEMENT ADMIXTURE

(57) Abstract: A cement admixture object of the present invention can make slump-retaining ability excellent to retain fluidity and, at the same time, can realize a viscosity of cement compositions so that work becomes easy at a field handling them, can make the state of a cement composition better. The present invention relates to a cement admixture which comprises a polycarboxylic acid copolymer having a polyalkylene glycol side chain, said polycarboxylic acid copolymer being constituted of two or more species of copolymers with different acid values, and at least one of said two or more species of copolymers with different acid values having an oxyalkylene group containing 3 or more carbon atoms.

WO 2005/044752 A1